## pb1103: Factoring when $a = $ prime (v23)

1. Factor the expression $2x^2 + 15x - 27$

$$(2x - 3)(x + 9)$$

2. Factor the expression $11x^2 + 83x - 40$

$$(11x - 5)(x + 8)$$

3. Factor the expression $2x^2 - 3x - 27$

$$(2x - 9)(x + 3)$$

4. Factor the expression $3x^2 + 29x + 18$

$$(3x + 2)(x + 9)$$

5. Factor the expression $7x^2 + 24x + 9$

$$(7x + 3)(x + 3)$$

6. Factor the expression $11x^2 - 54x - 5$

$$(11x + 1)(x - 5)$$

7. Factor the expression $3x^2 + 20x - 63$

$$(3x - 7)(x + 9)$$

8. Factor the expression $2x^2 + 5x - 42$

$$(2x - 7)(x + 6)$$

9. Factor the expression $2x^2 - 13x + 15$

$$(2x - 3)(x - 5)$$

10. Factor the expression $5x^2 - 17x - 40$

$$(5x + 8)(x - 5)$$